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=> s hydroxyapatite or PHA

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=> s hydroxyapatite or PHA

L1 97289 HYDROXYAPATITE OR PHA

=> s mak? or prepar?

3 FILES SEARCHED...

L2 6876359 MAK? OR PREPAR?

=> s l1 and l2

L3 18976 L1 AND L2

=> s 13 and method
L4 11579 L3 AND METHOD

=> s 14 and ((calcium sulfate) or CaSO4)
L5 452 L4 AND ((CALCIUM SULFATE) OR CASO4)

=> s 15 and ((sodium phosphate) or Na3PO4)
L6 66 L5 AND ((SODIUM PHOSPHATE) OR NA3PO4)

=> s 16 and ((CaCO3) or (calcium carbonate))
L7 47 L6 AND ((CACO3) OR (CALCIUM CARBONATE))

=> s 17 and (magnesium salt#)
L8 2 L7 AND (MAGNESIUM SALT#)

=> d 18 1-2 ibib ab

L8 ANSWER 1 OF 2 USPATFULL
ACCESSION NUMBER: 2002:30405 USPATFULL
TITLE: Biocements having improved compressive strength
INVENTOR(S): Wenz, Robert, Wollstadt, GERMANY, FEDERAL REPUBLIC OF
Driessens, Ferdinand, ohe en Laak, NETHERLANDS

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 2002017220 | A1 | 20020214 |
| APPLICATION INFO.: | US 2001-853042 | A1 | 20010511 (9) |

| | NUMBER | DATE |
|-----------------------|---|----------|
| PRIORITY INFORMATION: | DE 2000-110045 | 20000512 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | MILLEN, WHITE, ZELANO & BRANIGAN, P.C., 2200 CLARENDON
BLVD., SUITE 1400, ARLINGTON, VA, 22201 | |
| NUMBER OF CLAIMS: | 20 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 1 Drawing Page(s) | |
| LINE COUNT: | 270 | |

AB The invention describes biodegradable calcium phosphate cements, in particular mixtures of calcium phosphate-containing powders of different stoichiometric composition, the precipitated hydroxylapatite present being a cation-deficient hydroxylapatite of the formula 1, with the result that the mixtures have improved properties with regard to compressive strength.

L8 ANSWER 2 OF 2 EUROPATFULL COPYRIGHT 2002 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 1179568 EUROPATFULL EW 200207 FS OS
TITLE: POLYAMIDE RESIN COMPOSITION.
POLYAMIDHARZZUSAMMENSETZUNG.
COMPOSITION DE RESINE POLYAMIDE.
INVENTOR(S): ARAMAKI, Masaaki, 12-7-201, Midorigaoka 4-chome,
Nobeoka-shi, Miyazaki 882-0863, JP;
WATANABE, Katsushi, 334-11, Sakurakouji, Nobeoka-shi,
Miyazaki 882-0816, JP;

Samein 505
Same in facteur !
AB

NAKASHIMA, Ikutoshi, 2633-9, Wahabacho 2-chome,
 Nobeoka-shi, Miyazaki 882-0875, JP
 PATENT ASSIGNEE(S): Asahi Kasei Kabushiki Kaisha, 2-6, Dojimahama 1-chome,
 Kita-ku, Osaka-shi, Osaka 530-8205, JP
 PATENT ASSIGNEE NO: 219576
 AGENT: Blake, John Henry Francis, Brookes Batchellor 102-108
 Clerkenwell Road, London EC1M 5SA, GB
 AGENT NUMBER: 28375
 OTHER SOURCE: BEPA2002015 EP 1179568 A1 0051
 SOURCE: Wila-EPZ-2002-H07-T1a
 DOCUMENT TYPE: Patent
 LANGUAGE: Anmeldung in Japanisch; Veröffentlichung in Englisch;
 Verfahren in Englisch
 DESIGNATED STATES: R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R
 GB; R GR; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R
 SE; R TR; R AL; R LT; R LV; R MK; R RO; R SI
 PATENT INFO.PUB.TYPE: EPA1 EUROPÄISCHE PATENTANMELDUNG (Internationale
 Anmeldung)
 PATENT INFORMATION:

| PATENT NO | KIND DATE | |
|------------------------|--------------------|---------------|
| EP 1179568 | A1 20020213 | |
| | 20020213 | |
| 'OFFENLEGUNGS' DATE: | | |
| APPLICATION INFO.: | EP 2001-904462 | 20010215 |
| PRIORITY APPLN. INFO.: | JP 2000-2000037533 | 20000216 |
| | JP 2000-2000037534 | 20000216 |
| | JP 2000-2000041533 | 20000218 |
| RELATED DOC. INFO.: | WO 01-JP1067 | 010215 INTAKZ |
| | WO 0160918 | 010823 INTPNR |

ABEN The present invention provides a polyamide resin composition suitable
 as
 industrial materials such as automobile parts, electronic or electrical
 parts, and industrial machine parts, and excellent in various
 mechanical
 properties such as various kinds of moldability, rigidity, and
 strength,
 and durability such as heat-resistant aging property.

Namely, the invention relates to a polyamide resin composition
 comprising (A) a polyamide, (B) an apatite type compound, and (C) (i) a
 higher fatty acid metal salt and/or (ii) a mixture of a metal halide
 and
 a copper compound, wherein the polyamide resin composition is
 obtainable
 by adding component (C) after the formation of the apatite type
 compound.

WEST**The Contents of Case 09853042**

| Qnum | Query | DB Name | Thesaurus | Operator | Plural |
|------|---|-------------------------------|-----------|----------|--------|
| Q1 | (bone or calcium or (calcium phosphate)) and cement? | USPT,PGPB,JPAB,EPAB,DWPI,TDBD | None | OR | YES |
| Q2 | Q1 and (TCP or (tricalcium phosphate)) | USPT,PGPB,JPAB,EPAB,DWPI,TDBD | None | OR | YES |
| Q3 | Q2 and (PHA or hydroxyapatite or hydroxylapatite) | USPT,PGPB,JPAB,EPAB,DWPI,TDBD | None | OR | YES |
| Q4 | Q3 and ((inorganic phosphate) or CaHPO4 or (apatite and carbonate)) | USPT,PGPB,JPAB,EPAB,DWPI,TDBD | None | OR | YES |
| Q5 | Q4 and (particle size) | USPT,PGPB,JPAB,EPAB,DWPI,TDBD | None | OR | YES |
| Q6 | Q5 and (compressive strength) | USPT,PGPB,JPAB,EPAB,DWPI,TDBD | None | OR | YES |
| Q7 | Q6 and (weight percent\$) | USPT,PGPB,JPAB,EPAB,DWPI,TDBD | None | OR | YES |
| Q8 | Q7 and (settling accelerator) | USPT,PGPB,JPAB,EPAB,DWPI,TDBD | None | OR | YES |
| Q9 | Q8 and ((drug delivery) or (biologically active) or bioactive or drug) | USPT,PGPB,JPAB,EPAB,DWPI,TDBD | None | OR | YES |
| Q10 | Q9 and (antibiotic or disinfectant) | USPT,PGPB,JPAB,EPAB,DWPI,TDBD | None | OR | YES |
| Q11 | Q10 and (solution or suspension or paste) | USPT,PGPB,JPAB,EPAB,DWPI,TDBD | None | OR | YES |
| Q12 | Q11 and ((growth factor) or prostaglandin or (bone morphogenic protein) or (tissue growth factor) or (fibroblast growth factor) or TGFBeta or BMP or OP or FGF) | USPT,PGPB,JPAB,EPAB,DWPI,TDBD | None | OR | YES |

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A1 | 20020214 | 5 |
| 2 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | US 20010016353
A1 | 20010823 | 8 |
| 3 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | US 6379453 B1 | 20020430 | 16 |
| 4 | | <input checked="" type="checkbox"/> | US 4610692 A | 19860909 | 8 |
| 5 | | <input checked="" type="checkbox"/> | US 4207306 A | 19800610 | 16 |
| 6 | | <input checked="" type="checkbox"/> | US 4097935 A | 19780704 | 19 |

| | Title | Current OR | Current XRef |
|---|---|------------|--|
| 1 | Biocements having improved compressive strength | 106/35 | 106/690;
106/691;
623/23.56;
623/23.61;
623/23.62 |
| 2 | Relic process for producing resorbable ceramic scaffolds | 435/395 | 264/610 |
| 3 | Process for producing fast-setting, bioresorbable calcium phosphate cements | 106/690 | 106/35;
106/691 |
| 4 | Implant for filling bone cavities and fixing bone fragments in a living body, method of producing the same, and bone implant system | 424/422 | 264/43;
264/44;
424/423;
424/602;
424/679;
424/680;
424/723;
427/245;
427/373;
523/116;
623/23.48 |
| 5 | Process for producing polycrystalline ceramic oxides | 423/633 | 423/594;
423/598;
423/625;
423/636;
501/1 |
| 6 | Hydroxylapatite ceramic | 623/23.61 | 106/35;
423/307;
423/594;
423/598;
423/625;
423/633;
423/634;
423/636;
433/228.1;
501/1;
501/151;
523/116;
623/9 |

| | Retrieval
Classif | Inventor | S | C | P | 2 | 3 | 4 | 5 |
|---|----------------------|--------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | | Wenz, Robert et al. | <input type="checkbox"/> |
| 2 | | Janas, Victor F. et al. | <input type="checkbox"/> |
| 3 | | Lin, Jiin-Huey Chern et
al. | <input type="checkbox"/> |
| 4 | | Eitenmuller, Jurgen et
al. | <input type="checkbox"/> |
| 5 | | Jarcho, Michael | <input type="checkbox"/> |
| 6 | | Jarcho, Michael | <input type="checkbox"/> |

| | Image Doc.
Displayed | PT |
|---|-------------------------|--------------------------|
| 1 | US 20020017220 | <input type="checkbox"/> |
| 2 | US 20010016353 | <input type="checkbox"/> |
| 3 | US 6379453 | <input type="checkbox"/> |
| 4 | US 4610692 | <input type="checkbox"/> |
| 5 | US 4207306 | <input type="checkbox"/> |
| 6 | US 4097935 | <input type="checkbox"/> |